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MULTI-CORE TRANSFORMER PLASMA SOURCE

ABSTRACT OF THE DISCLOSURE

A transformer-coupled plasma source using toroidal cores forms a

- plasma with a high-density of ions along the center axis of the torus. In one embodiment, cores of a plasma generator are stacked in a vertical alignment to enhance the directionality of the plasma and generation efficiency. In another embodiment, cores are arranged in a lateral array into a plasma generating plate that can be scaled to accommodate substrates of various sizes, including very large substrates. The
- symmetry of the plasma attained allows simultaneous processing of two substrates, one on either side of the plasma generator.

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